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Corteva Agriscience<sup>™</sup> encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

### SECTION 1. IDENTIFICATION

Product name	:	MILESTONE™ NXT Herbicide
Other means of identification	:	No data available

### Manufacturer or supplier's details

### **COMPANY IDENTIFICATION**

Manufacturer/importer	:	CORTEVA AGRISCIENCE CANADA COMPANY #2450, 215 - 2ND STREET S.W. CALGARY AB, T2P 1M4 CANADA
Customer Information	:	800-667-3852
E-mail address	:	solutions@corteva.com
Emergency telephone number	:	CANUTEC
		1-888-226-8832

#### Recommended use of the chemical and restrictions on use

Recommended use	: End use herbicide produc
Recommended use	. End use herbicide produc

### **SECTION 2. HAZARDS IDENTIFICATION**

#### GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

#### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance / Mixture : Mixture

#### Components

	Common Name/Synonym	CAS-No.	Concentration (% w/w)			
Aminopyralid Potassi- Aminopyralid 566191-87-5 70.01						
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Florpy	rauxifen-benzyl/	Florpyrauxifen- benzyl	1390661-72-9	9 6	
Kaolir	ו	Kaolin	1332-58-7	>= 3 - < 10 *	
3		Sodium ligno- sulfonate	8061-51-6	>= 3 - < 10 *	
Sodium N-methyl-N- oleoyltaurine		Sodium N- methyl-N- oleoyltaurine	137-20-2	>= 1 - < 3 *	
Piclor	Picloram Picloram		1918-02-1	>= 1 - < 3 *	

\* Actual concentration or concentration range is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

If inhaled In case of skin contact In case of eye contact	:	No emergency medical treatment necessary. Wash off with plenty of water. Hold eyes open and rinse slowly and gently with water for 15- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
If swallowed	:	No emergency medical treatment necessary.
Most important symptoms and effects, both acute and delayed	:	None known.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical re- sistant gloves, splash protection).
		If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician	:	No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam
Unsuitable extinguishing media	:	Dry chemical
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health. Applying foam will release significant amounts of hydrogen gas that can be trapped under the foam blanket. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion prod- ucts	:	During a fire, smoke may contain the original material in addi- tion to combustion products of varying composition which may be toxic and/or irritating.
Specific extinguishing meth- ods	:	Do not allow extinguishing medium to contact container con- tents. Most fire extinguishing media will cause hydrogen evo- lution, and once the fire is put out, may accumulate in poorly ventilated or confined areas and result in flash fire or explo- sion if ignited. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.



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Special protective equipment : for firefighters		<ul> <li>cumstances a Use water sp</li> <li>Collect contain must not be d</li> <li>Fire residues be disposed d</li> <li>Wear self-cor essary.</li> </ul>	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Wear self-contained breathing apparatus for firefighting if nec-		
SECTION 6	6. ACCIDENTAL RELE	ASE MEASURES			
tive eq	nal precautions, protec- uipment and emer- procedures	Use appropria	mation. ate safety equipment. For additional information, on 8, Exposure Controls and Personal Protection.		
Enviro	nmental precautions	respective au Discharge inte Prevent furthe Retain and di Local authorit cannot be con Prevent from	o the environment must be avoided. er leakage or spillage if safe to do so. spose of contaminated wash water. ies should be advised if significant spillages		

Methods and materials for containment and cleaning up	:	Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in. Pick up and arrange disposal without creating dust. Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over- pressurization of the container. Keep in suitable, closed containers for disposal. Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. See Section 13 Disposal Considerations for additional infor-
		See Section 13, Disposal Considerations, for additional infor- mation.

### SECTION 7. HANDLING AND STORAGE

Conditions for safe storage : Store in a closed container. Containers which are opened must be carefully resea kept upright to prevent leakage.	Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Smoking, eating and drinking should be prohibited in the ap- plication area. Take care to prevent spills, waste and minimize release to the environment. Use appropriate safety equipment. For additional information,
		Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers. Store in accordance with the particular national regulations.



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Packaging material : Unsuitable material: None known.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Kaolin	1332-58-7	TWA (Res- pirable)	2 mg/m3	CA AB OEL
		TWA (Res- pirable)	2 mg/m3	CA BC OEL
		TWAEV (respirable dust)	2 mg/m3	CA QC OEL
		TWA (Res- pirable par- ticulate mat- ter)	2 mg/m3	ACGIH
Picloram	1918-02-1	TŴA	10 mg/m3	CA AB OEL
		TWA (Total dust)	10 mg/m3	CA BC OEL
		TWA (respir- able dust fraction)	3 mg/m3	CA BC OEL
		TWAEV	10 mg/m3	CA QC OEL
		TWA	10 mg/m3	ACGIH

Engineering measures : Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

#### Personal protective equipment

Respiratory protection :	Respiratory protection should be worn when there is a poten- tial to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experi- enced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, in dusty atmospheres, use an approved particulate respirator.
Hand protection	
Remarks :	Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Chlo- rinated polyethylene. Polyethylene. Ethyl vinyl alcohol lami- nate ("EVAL"). Examples of acceptable glove barrier materi- als include: Natural rubber ("latex"). Neoprene. Ni- trile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. NOTICE: The selection of a specific glove for a particular application and duration of use in a



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	protection and body protection	place factors s which may be protection, dex tions to glove r tions/specificat Use safety gla Use protective Selection of sp	uld also take into account all relevant work- uch as, but not limited to: Other chemicals handled, physical requirements (cut/puncture tterity, thermal protection), potential body reac- materials, as well as the instruc- tions provided by the glove supplier. sses (with side shields). clothing chemically resistant to this material. becific items such as face shield, boots, apron, t will depend on the task.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Solid.
Colour	:	tan
Odour	:	mild
Odour Threshold	:	No data available
рН	:	9.83 (20.4 °C) Method: pH Electrode
Freezing point	:	Not applicable
Melting point/range		No data available
Boiling point/boiling range	:	Not applicable
Flash point	:	Method: closed cup Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Density	:	Not applicable
Bulk density Solubility(ies)	:	0.5962 g/mL
Water solubility	:	No data available
Auto-ignition temperature	:	Not applicable
Viscosity Viscosity, dynamic	:	Not applicable



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Explo	sive properties	: No data availa	able	
Oxidi	zing properties	: No significant	increase (>5C) in temperature.	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. No decomposition if stored and applied as directed. Stable under normal conditions. Stable under recommended storage conditions. No hazards to be specially mentioned. None known.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Acids Decomposition products depend upon temperature, air supply and the presence of other materials.

### SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Product:		
Acute oral toxicity	:	LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 5.46 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 402
Components:		
Aminopyralid Potassium:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	Remarks: No adverse effects are anticipated from single exposure to dust. Based on the available data, respiratory irritation was not observed.
		LC50 (Rat): > 5.10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhala-



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			tion toxicity
Acute	e dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg
Florp	yrauxifen-benzyl:		
Acute	e oral toxicity	:	LD50 (Rat, female): > 5,000 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat, male and female): > 5.23 mg/l Exposure time: 4 h Test atmosphere: dust/mist Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute in tion toxicity
Acute	e dermal toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Kaoli	n:		
Acute	e oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
	um lignosulfonate:		
Acute	e oral toxicity	:	LD50 (Rat, male and female): > 10,000 mg/kg
Acute	te inhalation toxicity		LC50 (Rat): 0.48 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute in tion toxicity
Sodi			ino.
	um N-mothyl-N-oloov	dtaurn	
Acute	u <b>m N-methyl-N-oleoy</b> e oral toxicity		LD50 (Rat): > 2,000 mg/kg
			LD50 (Rat): > 2,000 mg/kg LD50 (Rat): > 2,000 mg/kg
	e oral toxicity e dermal toxicity	:	
Acute <b>Piclo</b>	e oral toxicity e dermal toxicity	:	
Acute <b>Piclo</b>	e oral toxicity e dermal toxicity ram:	:	LD50 (Rat): > 2,000 mg/kg LD50 (Rat, male): > 5,000 mg/kg Remarks: Signs and symptoms of excessive exposure include:
Acute <b>Piclo</b> Acute	e oral toxicity e dermal toxicity ram:	:	LD50 (Rat): > 2,000 mg/kg LD50 (Rat, male): > 5,000 mg/kg Remarks: Signs and symptoms of excessive exposure include: Convulsions.
Acute <b>Piclo</b> Acute	e oral toxicity e dermal toxicity <b>ram:</b> e oral toxicity	:	LD50 (Rat): > 2,000 mg/kg LD50 (Rat, male): > 5,000 mg/kg Remarks: Signs and symptoms of excessive exposure include: Convulsions. LD50 (Rat, female): 4,012 mg/kg LC50 (Rat, male and female): > 0.035 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute in



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Skin	corrosion/irritation			
Produ	uct:			
Speci		: Rabbit		
Metho Resul			Fest Guide irritation	line 404
Comr	oonents:			
Speci	yrauxifen-benzyl:	: Rabbit		
Resul			irritation	
Kaoli				
Speci Resul		: Rabbit	irritation	
Resul		. 110 51(11	Intation	
Serio	us eye damage/eye	rritation		
<u>Produ</u>				
Speci Resul		: Rabbit	irritation	
Metho		: No eye : OECD 1	Fest Guide	line 405
0				
	<u>oonents:</u>			
-	yrauxifen-benzyl:			
Speci Resul		: Rabbit : No eye	irritation	
Resul		. No cyc	intation	
Kaoli	n:			
Speci		: Rabbit	irritation	
Resul	I	: No eye	Initation	
Sodiu	um lignosulfonate:			
Resul	-	: Eye irrita	ation	
Sodiu	um N-methyl-N-oleoy	Itaurine:		
Speci		: Rabbit		
Resul	t	: Eye irrita	ation	
Resp	iratory or skin sensi	tisation		
Produ	uct:			
Test 1		: Local ly	mph node	assay (LLNA)
Speci	es	: Mouse	-	
Metho Resul			Fest Guide	line 429 kin sensitisation.
Resul	it.	. Does no	n cause si	งแก่ ระบริเมริสมีบน.



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Compo	onents:			
Amino	pyralid Potassium:			
Remark	(S	:	Did not cause alle pigs.	ergic skin reactions when tested in guinea
Remark	KS .	:	For respiratory se No relevant data	
Florpy	auxifen-benzyl:			
Test Ty		:	Local lymph node	e assay (LLNA)
Species	6	:	Mouse	
Result		•	The product is a	skin sensitiser, sub-category 1B.
Sodiun	n lignosulfonate:			
Remark	(S	:	Did not cause alle pigs.	ergic skin reactions when tested in guinea
Remark	S	:	For respiratory se No relevant data	
Sodiun	n N-methyl-N-oleoylt	auri	ne:	
Species	8	:	Guinea pig	
Assess	ment	:	Does not cause s	skin sensitisation.
Piclora	m:			
Species	6	:	Guinea pig	
Assess		:	Does not cause s	skin sensitisation.
Germ c	ell mutagenicity			
Compo	onents:			
Amino	oyralid Potassium:			
Germ c Assess	ell mutagenicity - ment	:		ingredient(s)., Aminopyralid., In vitro genetic ere predominantly negative., Animal genetic ere negative.
Florpy	auxifen-benzyl:			
Germ c Assess	ell mutagenicity -	:	In vitro genetic to	xicity studies were negative.
//00000	inont		Animal genetic to	xicity studies were negative.
Sodiun	n lignosulfonate:			
	ell mutagenicity -	:	In vitro genetic to	xicity studies were negative.
Sodiun	n N-methyl-N-oleoylt	auri	ne:	
Germ c Assess	ell mutagenicity - ment	:	In vitro genetic to	xicity studies were negative.
Piclora	m:			
Germ c	ell mutagenicity -	:	In vitro tests did r	not show mutagenic effects



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Asses	sment			
Carci	nogenicity			
<u>Comp</u>	oonents:			
Amin	opyralid Potassium:			
Carcir ment	nogenicity - Assess-	:	For similar active cancer in laboration	ve ingredient(s)., Aminopyralid., Did not cause atory animals.
Florp	yrauxifen-benzyl:			
Carcir ment	nogenicity - Assess-	:	Did not cause o	cancer in laboratory animals.
Kaoli	n:			
Carcir ment	nogenicity - Assess-	:	Animal testing	did not show any carcinogenic effects.
Piclo				
Carcir ment	nogenicity - Assess-	:	Did not cause o	cancer in laboratory animals.
Repro	oductive toxicity			
<u>Comp</u>	oonents:			
Amin	opyralid Potassium:			
Repro sessn	oductive toxicity - As- nent	:	ies, did not inte For similar activ birth defects or	ve ingredient(s)., Aminopyralid., In animal stu rfere with reproduction. ve ingredient(s)., Aminopyralid., Did not cause other effects in the fetus even at doses which fects in the mother.
Florp	yrauxifen-benzyl:			
Repro	oductive toxicity - As- nent	:		es, did not interfere with reproduction. pirth defects or any other fetal effects in labora
Sodiu	ım N-methyl-N-oleoy	Itauri	ne:	
Repro sessn	oductive toxicity - As- nent	:	Screening stud reproduction.	ies suggest that this material does not affect
Piclo	ram:			
Repro	oductive toxicity - As-	:		es, did not interfere with reproduction.
sessn	nent			birth defects or other effects in the fetus even bused toxic effects in the mother.
STOT	- single exposure			
<u>Produ</u>	uct:			
Asses	sment	:	Evaluation of a an STOT-SE to	vailable data suggests that this material is no



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Comp	oonents:			
	opyralid Potassium: ssment		Evaluation of ava	ilable data suggests that this material is not cant.
-	<b>yrauxifen-benzyl:</b> ssment		Evaluation of ava an STOT-SE toxi	ilable data suggests that this material is not cant.
<b>Kaoli</b> i Asses	<b>n:</b> ssment		Evaluation of ava	ilable data suggests that this material is not cant.
Sodiu	ım N-methyl-N-oleoylt	ouring		
	sment	: E		ilable data suggests that this material is not cant.
Repe	ated dose toxicity			
<u>Comp</u>	oonents:			
<b>Amin</b> Rema	<b>opyralid Potassium:</b> ırks	ہر ا	For similar active Aminopyralid. n animals, effect: gans: Gastrointestinal ti	s have been reported on the following or-
Florp	yrauxifen-benzyl:			
Rema	ırks			le data, repeated exposures are not antici- gnificant adverse effects.
Kaoli	n:			
Rema	ırks			ive exposure to crystalline silica may cause ssive and disabling disease of the lungs.
Sodiu	ım lignosulfonate:			
Rema	irks			le data, repeated exposures are not antici- gnificant adverse effects.
Sodiu	ım N-methyl-N-oleoylt	aurine	<b>:</b>	
Rema		: E	Based on availab	le data, repeated exposures are not antici- gnificant adverse effects.
Piclo	ram:			
Rema	ırks	ç	n animals, effect: gans: .iver. Gastrointestinal ti	s have been reported on the following or- ract.



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### Aspiration toxicity

### Product:

Based on available information, aspiration hazard could not be determined.

### **Components:**

### Aminopyralid Potassium:

Based on available information, aspiration hazard could not be determined.

### Florpyrauxifen-benzyl:

Based on physical properties, not likely to be an aspiration hazard.

### Kaolin:

Based on physical properties, not likely to be an aspiration hazard.

### Sodium lignosulfonate:

Based on available information, aspiration hazard could not be determined.

### Sodium N-methyl-N-oleoyltaurine:

Based on available information, aspiration hazard could not be determined.

#### Picloram:

Based on physical properties, not likely to be an aspiration hazard.

### **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity

#### **Components:**

Aminopyralid Potassium:		
Toxicity to fish	:	Remarks: For similar active ingredient(s). Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).
		LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 or Equivalent
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Algae): 100 mg/l Exposure time: 72 h
		ErC50 (Myriophyllum spicatum): 0.363 mg/l Exposure time: 14 d Remarks: For similar material(s):



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				NOEC (Myriophyl Exposure time: 14 Remarks: For sim	
	oxicity sms	to terrestrial organ-	:	basis (LD50 > 200	l is practically non-toxic to birds on an acute 00 mg/kg)., Material is slightly toxic to birds (LC50 between 1001 and 5000 ppm).
E	cotox	icology Assessment			
		quatic toxicity	:	Very toxic to aqua	tic life.
C	Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
F	lorpyr	auxifen-benzyl:			
		to fish	:	Exposure time: 96	hus mykiss (rainbow trout)): > 0.0490 mg/l 5 h 50 value is above the water solubility.
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 0.0623 mg/l 3 h
	oxicity lants	to algae/aquatic	:	ErC50 (Pseudokir 0.0424 mg/l End point: Growth Exposure time: 72	
				ErC50 (Myriophyll Exposure time: 14	um spicatum): 0.000154 mg/l l d
				NOEC (Myriophyl Exposure time: 14	lum spicatum): 0.0000095 mg/l I d
		or (Acute aquatic tox-	:	1,000	
Т	city) oxicity city)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Test Type: static t	
а	quatic	to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.0378 mg/l d
N		or (Chronic aquatic	:	10,000	
	oxicity) oxicity	to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD Te	
	oxicity anisma	to soil dwelling or- s	:	LC50 (Eisenia feti Exposure time: 14	da (earthworms)): > 2,000 mg/kg I d
	oxicity sms	to terrestrial organ-	:	oral LD50 (Colinu: mg/kg bodyweigh End point: mortali	
				dietary LC50 (Ana	as platyrhynchos (Mallard duck)): > 5620



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			mg/kg diet.	
			oral LD50 (Apis m Exposure time: 48 End point: mortali	
			contact LD50 (Ap Exposure time: 48 End point: mortali	
Ecoto	xicology Assessment			
Acute	aquatic toxicity	:	Very toxic to aqua	atic life.
Chron	ic aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.
Sodiu	m lignosulfonate:			
	ty to fish	:		Il is practically non-toxic to aquatic organ- basis (LC50/EC50/EL50/LL50 >100 mg/L e species tested).
			LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 615 mg/l 5 h
	ty to daphnia and other c invertebrates	:	LC50 (Daphnia m Exposure time: 48 Test Type: static t	
			Method: OECD To	est Guideline 202 or Equivalent a family of materials:
Sodiu	m N-methyl-N-oleoylta	uri	ne:	
Toxici	ty to fish	:	LC50 (Danio rerio Exposure time: 96	o (zebra fish)): 1.32 mg/l 5 h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 5.76 mg/l 3 h
Toxici plants	ty to algae/aquatic	:	EC50 (Desmodes Exposure time: 72	smus subspicatus (green algae)): 197 mg/l 2 h
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 2′	nagna (Water flea)): 2 mg/l 1 d
Piclor	am:			
Toxici	ty to fish	:	LC50 (Oncorhync Exposure time: 96 Test Type: static t	
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 44.2 mg/l 3 h
Toxicit plants	ty to algae/aquatic	:	ErC50 (Pseudokin mg/l End point: Growth Exposure time: 72	



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			EC50 (Lemna gib Exposure time: 14 Test Type: Growt	4 d h inhibition
			Exposure time: 14	
			NOEC (Myriophyl Exposure time: 14	lum spicatum): 0.0095 mg/l 4 d
M-Fa icity)	ctor (Acute aquatic tox-	:	1	
	ity to fish (Chronic tox-	:	(Rainbow trout (C Exposure time: 70 Test Type: flow-th	
aqua	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC (Daphnia r End point: numbe Exposure time: 2 <sup>4</sup> Test Type: static t	1 d
			LOEC (Daphnia n End point: numbe Exposure time: 2 <sup>4</sup> Test Type: static t	1 d
			MATC (Maximum magna (Water flea End point: numbe Exposure time: 27 Test Type: static f	r of offspring 1 d
M-Fa toxici	ctor (Chronic aquatic tv)	:	10	
		:	EC50 (activated s Exposure time: 3	sludge): > 100 mg/l h
Toxic ganis	ity to soil dwelling or- ms	:	LC50 (Eisenia feti Exposure time: 14 End point: surviva	
Toxic isms	ity to terrestrial organ-	:	oral LD50 (Anas p bodyweight. Exposure time: 14	blatyrhynchos (Mallard duck)): > 2510 mg/k 4 d
			dietary LC50 (Ana mg/kg diet.	as platyrhynchos (Mallard duck)): > 5000
			contact LD50 (Ap Exposure time: 48	is mellifera (bees)): > 100 micrograms/bee 3 h
			oral LD50 (Apis m Exposure time: 48	nellifera (bees)): > 74 micrograms/bee 3 d



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Ecot	oxicology Assessme	nt	
	e aquatic toxicity		c to aquatic life.
Chro	nic aquatic toxicity	: Very toxi	c to aquatic life with long lasting effects.
Pers	istence and degradal	bility	
<u>Com</u>	ponents:		
Amir	opyralid Potassium:		
Biode	egradability	Aminopy Based or be consid sults do r	: For similar active ingredient(s). ralid. a stringent OECD test guidelines, this material cannot lered as readily biodegradable; however, these re- not necessarily mean that the material is not biode- under environmental conditions.
		Exposure Method:	dation: 0% e time: 28 d OECD Test Guideline 301F or Equivalent : 10-day Window: Fail
Florp	oyrauxifen-benzyl:		
Biode	egradability	Biodegra Exposure Method:	ot readily biodegradable. dation: 14.6 % e time: 29 d DECD Test Guideline 301B : 10-day Window: Fail
Stabi	lity in water		e: Hydrolysis ion half life (DT50): 913 d (25 °C) pH: 4
			e: Hydrolysis ion half life (DT50): 111 d (25 °C) pH: 7
			e: Hydrolysis ion half life (DT50): 1.3 d (25 °C) pH: 9
Sodi	um lignosulfonate:		
	egradability		: Material is expected to biodegrade very slowly (in onment). Fails to pass OECD/EEC tests for ready dability.
		Exposure Method:	dation: < 5 % e time: 28 d OECD Test Guideline 301E : 10-day Window: Fail
Photo	odegradation		stant: 1.089E-10 cm3/s Estimated.
Sodi	um N-methyl-N-oleoy	Itaurine:	
	egradability	: Result: R	eadily biodegradable. dation: 80 %



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		Remarks: 10-	D Test Guideline 301B or Equivalent day Window: Pass adily biodegradable. Passes OECD test(s) for
Piclo	ram:		
Biode	gradability	Biodegradatic Exposure time Method: OEC	
Stabil	ity in water	: Test Type: Hy Degradation I Method: Meas	nalf life (half-life): > 1.8 yr (45 °C) pH: 5 - 9
Photo	odegradation	: Test Type: Ha	alf-life (direct photolysis)
		Sensitiser: Ol Concentration	alf-life (indirect photolysis) H radicals h: 1,500,000 1/cm3 h: 8.5E-13 cm3/s
Bioad	ccumulative potential		
<u>Com</u>	ponents:		
	opyralid Potassium:		
	ion coefficient: n- ol/water	Aminopyralid.	similar active ingredient(s). ion potential is low (BCF < 100 or Log Pow < 3).
Florp	yrauxifen-benzyl:		
Bioac	cumulation		omis macrochirus (Bluegill sunfish) ion factor (BCF): 356 e: 30 d
	ion coefficient: n- ol/water		20 °C) concentration potential is moderate (BCF be- d 3000 or Log Pow between 3 and 5).
Sodiu	um lignosulfonate:		
	cumulation	: Species: Fish Bioconcentrat	ion factor (BCF): 3.2
	ion coefficient: n- ol/water	:	_
		log Pow: -3.4 Method: Estin Remarks: Bio Pow < 3).	



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Sodiu	Im N-methyl-N-oleoylt	tauri	ne:		
Partiti	on coefficient: n- ol/water	:	: Pow: 1.36 (20 °C) Remarks: Bioconcentration potential is low (BCF < 100 Pow < 3).		
Piclor	am:				
Bioaco	cumulation	:		nis macrochirus (Bluegill sunfish) n factor (BCF): 0.54	
	on coefficient: n- ol/water	:	log Pow: -1.92 Remarks: Bioco Pow < 3).	oncentration potential is low (BCF < 100 or I	
Mobil	ity in soil				
<u>Comp</u>	oonents:				
Amine	opyralid Potassium:				
	oution among environ-	:		imilar active ingredient(s).	
menta	I compartments		Aminopyralid. Potential for mo 50).	bility in soil is very high (Koc between 0 and	
Florp	yrauxifen-benzyl:				
	oution among environ- Il compartments	:	Koc: 15305 - 33 Remarks: Expe 5000).	3500 cted to be relatively immobile in soil (Koc >	
Sodiu	Im lignosulfonate:				
	oution among environ- Il compartments	:	Koc: > 99999 Method: Estima Remarks: Expe 5000).	ited. cted to be relatively immobile in soil (Koc >	
Piclor	am:				
	oution among environ- Il compartments	:		ntial for mobility in soil is very high (Koc be- ).	
Stabili	ity in soil	:	Dissipation time Method: Measu	red erobic degradation	
			Method: Measu	red	
	adverse effects				
<u>Comp</u>	oonents:				
	opyralid Potassium:				
	ts of PBT and vPvB sment	:	lating and toxic	is not considered to be persistent, bioaccur (PBT). This substance is not considered to and very bioaccumulating (vPvB).	



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Ozo	one-Depletion Potential	:		bstance is not on the Montreal Protocol list t deplete the ozone layer.
Flo	rpyrauxifen-benzyl:			
	Results of PBT and vPvB assessment		lating and toxic (F	not considered to be persistent, bioaccumu- PBT). This substance is not considered to be ad very bioaccumulating (vPvB).
Ozo	one-Depletion Potential	:		bstance is not on the Montreal Protocol list t deplete the ozone layer.
Kad	olin:			
	ults of PBT and vPvB essment	:	lating and toxic (F	not considered to be persistent, bioaccumu- PBT). This substance is not considered to be ad very bioaccumulating (vPvB).
Ozo	one-Depletion Potential	:		bstance is not on the Montreal Protocol list t deplete the ozone layer.
Soc	lium lignosulfonate:			
	sults of PBT and vPvB essment	:	This substance h cumulation and to	as not been assessed for persistence, bioac- oxicity (PBT).
Ozo	one-Depletion Potential	:		bstance is not on the Montreal Protocol list t deplete the ozone layer.
Soc	lium N-methyl-N-oleoylt	auri	ne	
Res	sults of PBT and vPvB essment	:	This substance is lating and toxic (F	not considered to be persistent, bioaccumu- PBT). This substance is not considered to be id very bioaccumulating (vPvB).
Ozo	one-Depletion Potential	:		bstance is not on the Montreal Protocol list t deplete the ozone layer.
Pic	loram:			
Res	sults of PBT and vPvB essment	:	lating and toxic (F	not considered to be persistent, bioaccumu- PBT). This substance is not considered to be ad very bioaccumulating (vPvB).
Ozo	one-Depletion Potential	:		bstance is not on the Montreal Protocol list t deplete the ozone layer.

### SECTION 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods</b> Waste from residues	:	to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or
		listing may not apply if the material has been used or other-



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		wise contaminated. It is the responsibility of the waste gener- ator to determine the toxicity and physical properties of the material generated to determine the proper waste identifica- tion and disposal methods in compliance with applicable regu- lations. If the material as supplied becomes a waste, follow all appli- cable regional, national and local laws.
SECTION	I 14. TRANSPORT INFO	RMATION
Inter	national Regulations	
	<b>TDG</b> number er shipping name	<ul> <li>UN 3077</li> <li>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Florpyrauxifen-benzyl, Aminopyralid Potassium)</li> </ul>
Labe	ing group	: 9 : III : 9 : yes
UN/II	<b>-DGR</b> D No. er shipping name	<ul> <li>UN 3077</li> <li>Environmentally hazardous substance, solid, n.o.s. (Florpyrauxifen-benzyl, Aminopyralid Potassium)</li> </ul>
Labe Pack aircra Pack	ing group Is ing instruction (cargo	<ul> <li>9</li> <li>III</li> <li>Miscellaneous</li> <li>956</li> </ul>
IMDO UN n	<b>G-Code</b> number er shipping name	<ul> <li>UN 3077</li> <li>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Florpyrauxifen-benzyl, Aminopyralid Potassium)</li> </ul>
Labe EmS	ing group Is Code ne pollutant	<ul> <li>9</li> <li>III</li> <li>9</li> <li>F-A, S-F</li> <li>yes(Florpyrauxifen-benzyl, Aminopyralid Potassium)</li> <li>Stowage category A</li> </ul>
	• •	to Annex II of MARPOL 73/78 and the IBC Code
	applicable for product as onal Regulations	supplied.
<b>TDG</b> UN n	-	<ul> <li>: UN 3077</li> <li>: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.</li> </ul>
Class Pack Labe	ing group	<ul> <li>(Florpyrauxifen-benzyl, Aminopyralid Potassium)</li> <li>9</li> <li>III</li> <li>9</li> </ul>



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	Code le pollutant	: 171 : yes(Florpyra	uxifen-benzyl, Aminopyralid Potassium)

### **Further information**

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

For Canadian Ground transportation TDG Exemption: 1.45.1 Marine Pollutants (Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, do not apply if they are in transport solely on land by road vehicle or railway vehicle).

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### **SECTION 15. REGULATORY INFORMATION**

### The components of this product are reported in the following inventories:

DSL

: This product contains components that are not listed on the Canadian DSL nor NDSL.

Pest Control Products Act (PCPA) Registration Number : 34728

Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control products label: PCPA Label Hazard Communications:

Read the label and booklet before using. Keep out of reach of children.

This product is toxic to: Aquatic plants Non-target terrestrial plants

### SECTION 16. OTHER INFORMATION

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

#### Full text of other abbreviations

ACGIH CA AB OEL		USA. ACGIH Threshold Limit Values (TLV) Canada. Alberta, Occupational Health and Safety Code (table
ONNOOLL	•	2: OEL)



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CA BO CA QO	C OEL C OEL	: Québec. Re	tish Columbia OEL gulation respecting occupational health and safe- a 1, Part 1: Permissible exposure values for air- minants
CA AE CA BC	H / TWA 3 OEL / TWA C OEL / TWA C OEL / TWAEV	: 8-hour Occu : 8-hour time	e-weighted average upational exposure limit weighted average ted average exposure value

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM -American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - not otherwise specified; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN -United Nations.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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